

REPLACING A SIGNAL FROM A FAILED SENSOR IN A COMPUTER SYSTEM WITH AN ESTIMATED SIGNAL DERIVED FROM CORRELATIONS WITH OTHER SIGNALS

ABSTRACT

One embodiment of the present invention provides a system that enhances reliability, availability and serviceability in a computer system by replacing a signal from a failed sensor with an estimated signal derived from correlations with other instrumentation signals in the computer system. During operation, the system determines whether a sensor has failed in the computer system while the computer system is operating. If so, the system uses an estimated signal for the failed sensor in place of the actual signal from the failed sensor during subsequent operation of the computer system, wherein the estimated signal is derived from correlations with other instrumentation signals in the computer system. This allows the computer system to continue operating without the failed sensor.